

## **REMARKS**

Claims 1-39, 41-65, 67-73, 83-90, 92 and 93 are pending in this application. Claims 15-23, 48-61 and 87-90 stand allowed, claims 1-14 and 24-35 stand withdrawn, claims 43-46, 69-72 and 83-86 have been objected to only as being dependent upon rejected base claims, and claims 36-39, 41, 42, 46, 47, 62-65, 67, 68 and 73 have been rejected. The Examiner said that claims 43-46, 69-72 and 83-86 would be allowable if suitably rewritten in independent form, which has been done. Claims 36, 42-45, 47, 62, 68-72, 73, 83 and 85 have been amended, and claims 92 and 93 have been added. Claims 1, 8, 11, 15 (allowed), 24, 36, 43-45 (allowable), 57, 58, 62, 69-71 (allowable), 83, 85, 87 and 92 are independent.

Newly-presented claims 92 and 93 find support throughout the application as originally filed, for example, in Figs. 10(a) and 10(b). No new matter has been added.

The proposed changes are set forth on the attached sheets captioned "Version Marked to Show Changes Made".

### **The Rejection Under 35 U.S.C. § 112, § 2**

Claims 42-46, 68-72 and 83-86 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter of Applicants' invention. In particular, the Examiner questioned how could a single recess comprise a plurality of recesses:

Claims 42-46, 68-72 and 83-86 have been carefully reviewed and, where appropriate, have been revised to attend to the point said to be unclear. In this regard, it should be kept in mind that the disclosure explains, for example, at pages 11-14 and Figs. 6(a)-7(c) and 9(a)-10(b), how the recesses and corresponding projections are arranged and cooperate.

For all the foregoing reasons, favorable reconsideration and withdrawal of this rejection are respectfully requested.

**The Rejections Under  
35 U.S.C. § 102**

Claims 36-39, 41, 42, 46, 47, 62-65, 67, 68 and 73 have been rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,250,750 to Miyazawa et al. Applicants respectfully traverse this rejection and submit the following arguments in support thereof.

Applicants' invention, as set out in claim 36, involves an ink cartridge for an ink jet printer. The cartridge has a housing containing ink, an ink supply port formed on a wall of the housing at an offset position, and plural engaging recesses formed in the wall of the housing adjacent to and apart from the ink supply port. Each engaging recess is engageable with an associated projecting member of the printer when the ink cartridge is mounted on the printer. At least one of the engaging recesses and the projecting members of the printer aligns the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port.

As described in claim 62, this invention also concerns an ink jet printer that includes a carriage, the carriage having projecting members and an ink supply needle extending therefrom, a print head including nozzles through which ink is ejected mounted on the carriage, and an ink cartridge mounted on the carriage. The ink cartridge includes a housing having at least one wall, an ink supply port formed on the wall of the housing at an offset position, and plural engaging recesses formed in the wall of the housing adjacent to the ink supply port. The engaging recesses are engageable with the projecting members of the printer when the ink cartridge is mounted on the carriage. At least one engaging recess and projecting member of the

printer aligns the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port.

Miyazawa only teaches an ink printer and cartridge in which the recess 15 of the cartridge receives a support rod 117 that is part of the carriage cover body 110 (Figs. 2(a-b), 6, 7 and 12(a-d); col. 4, lines 33-41, and col. 9, lines 31-59). This in no way suggest the aspects of the present invention providing that the carriage has plural projecting members, and that the recesses of the ink cartridge receive the carriage's projecting members.

It is well-accepted that under § 102, an invention can only be anticipated by a reference which identically discloses every feature of the claimed invention. In re Bond, 910 F.2d 831, 832, 15 USPQ2d 1566, 1567 (Fed. Cir. 1990); see also Atlas Powder co. v. E.I. DuPont de Nemours & Co., 750 F.2d 1569, 1574 (Fed. Cir. 1984). Here, Miyazawa fails to even suggest, much less identically disclose, all the features of the claimed invention. Accordingly, Miyazawa in no way anticipates Applicants' invention.

The remaining rejected claims, claims 38, 39, 41, 42, 46, 47, 63-65, 67, 68 and 73, all ultimately depend from, and so incorporate by reference all the features of claims 36 and 62, including those features just shown to avoid the cited art. Accordingly, these claims patentably distinguish over that art at least for the same reason as their respective base claims.

For all the foregoing reasons, favorable reconsideration and withdrawal of this rejection are respectfully requested.

#### **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the document listed on the enclosed Form PTO/SB/08a.

It should be noted that the cited reference is a counterpart to U.S. Patent No. 6,250,750 to Miyazawa, et al., which already is of record in this application.

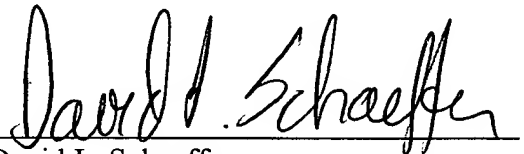
The cited reference is being submitted in accordance with 37 C.F.R. § 1.97(c). The Commissioner is authorized to charge the requisite fee under 37 C.F.R. § 1.17(p) (\$180.00), as well as any other fee which may now or hereafter be required, to Deposit Account No. 19-4709.

### CONCLUSION

Applicants have made a diligent effort to place this application in condition for allowance and submit that the claims are in condition for allowance. If for any reason, however, the Examiner should deem that this application is not in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below to resolve any outstanding issues prior to issuing a further Office Action.

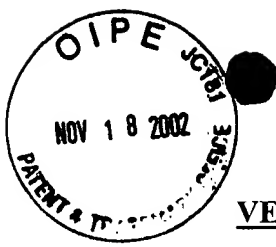
Early and favorable action is respectfully requested.

Respectfully submitted,



David L. Schaeffer  
Registration No. 32,716  
Attorney for Applicants  
STROOCK & STROOCK & LAVAN LLP  
180 Maiden Lane  
New York, New York 10038-4982  
(212) 806-5400

Attachment: "Version Marked to Show Changes Made"



**VERSION MARKED TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Add claims 92 and 93:

--92. (New) An ink jet printer, comprising:

a carriage having a plurality of projecting members and an ink supply needle extending therefrom;

a print head mounted on said carriage and having a plurality of nozzles through which ink is ejected;

an ink cartridge mounted on the carriage, said ink cartridge comprising;

a housing having at least one wall,

an ink supply port formed on the wall of said housing at an offset position, the ink supply needle being inserted into the ink supply port, and

an engaging recess formed in the wall of said housing adjacent to said ink supply port, said engaging recess receiving the projecting members of the printer,

wherein the engaging recess and the projecting members of the printer align the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port.

93. (New) An ink jet printer as in claim 92, wherein the ink supply needle, at least one of the projecting members, and the engaging recess are all dimensioned so that the ink supply needle does not contact the ink cartridge when the ink cartridge is placed on the carriage in an orientation such that the ink supply needle is not received in the ink supply port.--.

Amend claims 36, 42-45, 47, 62, 68-71, 83, 83 and 85:

36. (Thrice Amended) An ink cartridge for an ink jet printer, comprising:  
a housing containing ink;  
an ink supply port formed on a wall of said housing at an offset position; and  
~~at least one~~ a plurality of engaging recesses formed in the wall of said housing adjacent to and apart from said ink supply port, each said engaging recess being engageable with an associated projecting member of the printer when the ink cartridge is mounted on the printer, wherein at least one of the engaging recesses and the projecting members of the printer aligns the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port.

~~42. (Thrice Amended) An ink cartridge for an ink jet printer comprising  
a housing containing ink;  
an ink supply port formed on a wall of said housing at an offset position; and  
at least one engaging recess formed in the wall of said housing adjacent to and  
apart from said ink supply port, said engaging recess being engageable with a projecting member  
of the printer when the ink cartridge is mounted on the printer, wherein the engaging recess and  
the projecting member of the printer align the ink supply port with an ink supply needle of the  
printer prior to the insertion of the ink needle into the ink supply port~~The ink cartridge of claim  
36, wherein ~~said engaging recess comprises~~ the cartridge has an odd number of said engaging  
recesses.

43.(Twice amended) ~~The ink cartridge of claim 36~~An ink cartridge for an ink jet printer, comprising:

a housing containing ink;

an ink supply port formed on a wall of said housing at an offset position; and

at least one engaging recess formed in the wall of said housing adjacent to and apart from said ink supply port, said engaging recess being engageable with a projecting member of the printer when the ink cartridge is mounted on the printer, wherein the engaging recess and the projecting member of the printer align the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port, wherein said engaging recess comprises~~ink cartridge has~~ an even number of engaging recesses.

44.(Twice amended) ~~The ink cartridge of claim 42~~An ink cartridge for an ink jet printer comprising

a housing containing ink;

an ink supply port formed on a wall of said housing at an offset position; and

at least one engaging recess formed in the wall of said housing adjacent to and apart from said ink supply port, said engaging recess being engageable with a projecting member of the printer when the ink cartridge is mounted on the printer, wherein the engaging recess and the projecting member of the printer align the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port, wherein said ink cartridge has an odd number of the engaging recesses, and wherein the position of said engaging recess are is asymmetrical with respect to a center transversal line of said ink supply port.

45.(Twice amended) ~~The ink cartridge of claim 42~~An ink cartridge for an ink jet printer comprising

a housing containing ink;

an ink supply port formed on a wall of said housing at an offset position; and

a plurality of engaging recesses formed in the wall of said housing adjacent to and apart from said ink supply port, each said engaging recess being engageable with a projecting member of the printer when the ink cartridge is mounted on the printer, wherein the engaging recesses and the projecting members of the printer align the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port, wherein said ink cartridge has an odd number of said engaging recesses, and wherein at least two of the engaging recesses are disposed along a line.

47. (Thrice Amended) ~~An ink cartridge for an ink jet printer comprising:~~

~~a housing containing ink;~~

~~an ink supply port formed on a wall of said housing; and~~

~~at least one engaging recess formed in the wall of said housing adjacent to and apart from said ink supply port, said engaging recess being engageable with a projecting member of the printer when the ink cartridge is mounted on the printer, wherein the engaging recess and the projecting member of the printer align the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port~~The ink cartridge of claim 36, wherein at least one said engaging recess is rectangular in cross section.

62. (Thrice Amended) An ink jet printer, comprising:



a carriage, said carriage having a plurality of projecting members and an ink supply needle extending therefrom;

a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;

an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:

a housing having at least one wall;

an ink supply port formed on the wall of said housing at an offset position; and

~~at least one~~ a plurality of engaging recesses formed in the wall of said housing adjacent to said ink supply port, said engaging recesses being engageable with the projecting members of the printer when the ink cartridge is mounted on the carriage wherein at least one of the engaging recesses and the projecting members of the printer aligns the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port.

68. (Four Times Amended) ~~An ink jet printer, comprising:~~

~~—— a carriage, said carriage having a projecting member and an ink supply needle extending therefrom;~~

~~—— a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;~~

~~—— an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:~~

~~a housing having at least one wall;~~

~~an ink supply port formed on the wall of said housing; and~~

~~at least one engaging recess formed in the wall of said housing adjacent to said ink supply port, said engaging recess being engageable with the projecting member of the printer when the ink cartridge is mounted on the carriage wherein the engaging recess and the projecting member of the printer align the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port~~The printer of claim 62, wherein said engaging recess comprisesthe ink cartridge has an odd number of said engaging recesses.

69. (Thrice Amended) ~~The printer of claim 62~~An ink jet printer, comprising:

a carriage, said carriage having a projecting member and an ink supply needle extending therefrom;

a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;

an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:

a housing having at least one wall;

an ink supply port formed on the wall of said housing at an offset position; and

at least two engaging recess formed in the wall of said housing adjacent to said ink supply port, said engaging recess being engageable with the projecting member of the printer when the ink cartridge is mounted on the carriage, wherein the engaging recess and the projecting member of the printer align the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port, and wherein said engaging recess comprisesink cartridge has an even number of said engaging recesses.

70. (Thrice Amended) ~~The printer of claim 68~~An ink jet printer, comprising:

\_\_\_\_\_ a carriage, said carriage having a projecting member and an ink supply needle extending therefrom;

\_\_\_\_\_ a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;

\_\_\_\_\_ an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:

a housing having at least one wall;

an ink supply port formed on the wall of said housing; and

at least one engaging recess formed in the wall of said housing adjacent to said ink supply port, said engaging recess being engageable with the projecting member of the printer when the ink cartridge is mounted on the carriage,

wherein the engaging recess and the projecting member of the printer align the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port, wherein ink cartridge has an odd number of the engaging recesses, and wherein the position of said engaging recesses are is asymmetrical with respect to a center transversal line of said ink supply port.

71. (Thrice Amended) ~~The printer of claim 68~~ An ink jet printer, comprising:

\_\_\_\_\_ a carriage, said carriage having a projecting member and an ink supply needle extending therefrom;

\_\_\_\_\_ a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;

\_\_\_\_\_ an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:

a housing having at least one wall;  
an ink supply port formed on the wall of said housing; and  
a plurality of engaging recesses formed in the wall of said housing adjacent to  
said ink supply port, said engaging recesses being engageable with the projecting member of the  
printer when the ink cartridge is mounted on the carriage,

wherein the engaging recesses and the projecting member of the printer align the  
ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply  
port, wherein ink cartridge has an odd number of the engaging recesses, and wherein at least two  
of the engaging recesses are disposed along a line.

73. (Four Times Amended) ~~An ink jet printer, comprising:~~

~~—— a carriage, said carriage having a projecting member and an ink supply~~  
~~needle extending therefrom;~~

~~—— a print head including a plurality of nozzles through which ink is ejected~~  
~~mounted on said carriage;~~

~~—— an ink cartridge, said ink cartridge being mounted on the carriage and, said~~  
~~ink cartridge comprising:~~

~~a housing having at least one wall;~~

~~an ink supply port formed on the wall of said housing; and~~

~~at least one engaging recess formed in the wall of said housing adjacent to said~~  
~~ink supply port, said engaging recess being engageable with the projecting member of the printer~~  
~~when the ink cartridge is mounted on the carriage wherein the engaging recess and the projecting~~  
~~member of the printer align the ink supply port with the ink supply needle prior to insertion of~~

~~the ink needle into the ink supply port~~ The printer of claim 62, wherein at least one said engaging recess is rectangular in cross section.

83. (Twice Amended) ~~The ink cartridge of claim 42~~ An ink cartridge for an ink jet printer comprising

a housing containing ink;

an ink supply port formed on a wall of said housing at an offset position; and

at least one engaging recess formed in the wall of said housing adjacent to and apart from said ink supply port, said engaging recess being engageable with a projecting member of the printer when the ink cartridge is mounted on the printer, wherein the engaging recess and the projecting member of the printer align the ink supply port with an ink supply needle of the printer prior to the insertion of the ink needle into the ink supply port, wherein said ink cartridge has an odd number of said engaging recesses, and wherein the engaging recesses disposed along the a same line are formed by separate recesses.

85. (Twice Amended) ~~The ink cartridge of claim 68~~ An ink jet printer, comprising:

a carriage, said carriage having a projecting member and an ink supply needle extending therefrom;

a print head including a plurality of nozzles through which ink is ejected mounted on said carriage;

an ink cartridge, said ink cartridge being mounted on the carriage and, said ink cartridge comprising:

a housing having at least one wall;

an ink supply port formed on the wall of said housing; and

at least one engaging recess formed in the wall of said housing adjacent to said ink supply port, said engaging recess being engageable with the projecting member of the printer when the ink cartridge is mounted on the carriage wherein the engaging recess and the projecting member of the printer align the ink supply port with the ink supply needle prior to insertion of the ink needle into the ink supply port, wherein said engaging recess comprises an odd number of engaging recesses, and wherein the engaging recesses disposed along the a same line are formed by separate recesses.